

ÖLFLEX® HEAT 180 C MS

Shielded and certified silicone cables for North America (AWM recognized)

ÖLFLEX® HEAT 180 C MS - shielded silicone power and control cable, UL/CSA AWM approved for machine and apparatus construction in North America up to +180 °C

Info

MS = Multi-standard

For use in the USA and Canada

UL AWM Style 4476 (150 °C/600 V)

Metric flexible conductor design



UV-resistant



Temperature-resistant



Interference signals



Halogen-free



Cold-resistant

Benefits

Certified for the USA and Canada for export-oriented appliance and apparatus manufacturers

Thicker cable design meets the requirements of the FT-1 flame test and is therefore approved for the external connection of apparatus and appliances

Good flexibility simplifies installation where space is limited

Copper braiding complies with EMC requirements and screens the cable against electromagnetic interference

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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Application range

Areas with high ambient temperatures where insulating and sheath materials of conventional cables will become brittle and perish after a short period

Typical fields of application

- Steel, ceramic and smelting works
- Bakery equipment and industrial furnaces
- Electric motor industry
- Sauna/sunbed construction
- Thermal and heating elements
- Lighting technology
- Ventilator engineering
- Air-conditioning technology
- Galvanisation technology
- Plastic processing
- Generator and transformer manufacturing
- Wind power plant construction

Product features

Halogen-free (IEC 60754-1), corrosiveness of the gases (IEC 60754-2)

Flame-retardant according to IEC 60332-1-2, Cable Flame Test, CSA FT 1

Good hydrolysis and UV resistance

Resistant to a multitude of oils, alcohols, vegetable and animal fats and chemical substances

Adequate ventilation must be ensured, since the mechanical properties of silicone cables prematurely decrease from +100°C in the absence of air

Norm references / approvals

UL AWM 4476 and cUL AWM II A/B

Construction B, external wiring

UL File No. E63634

Design

Fine-wire, tin-plated copper conductor

Silicone-based core insulation

Cores twisted together

Tin-plated copper braiding,
overlapping plastic foil wrapping

Silicone-based outer sheath,
colour black

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Technical Data

Classification:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
Core identification code:	Coloured according to VDE 0293-308, see appendix T9 From 6 cores: black with white numbers
Conductor design:	Fine wire according to VDE 0295, class 5 / IEC 60228 class 5 (Refer to technical table T16 for the respective US conductor sizes in accordance with AWG)
Minimum bending radius:	Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage:	U ₀ /U: 300/500 V Operating voltage UL: 600 V
Test voltage:	2000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	According to VDE: -50°C to +180°C UL/cUL: up to +150°C (adequate ventilation required)

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)

Photographs are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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0046701	3 G 0.5	8.6	43.4	100
0046702	4 G 0.5	9.3	55.4	122
0046703	5 G 0.5	10	60.2	137
0046708	2 X 1	9	48.2	104
0046709	3 G 1	9.5	65	131
0046710	4 G 1	10.2	74.6	152
0046711	5 G 1	11	91.5	181
0046712	7 G 1	11.9	117.9	228
0046716	2 X 1.5	9.6	65	126
0046717	3 G 1.5	10.1	79.4	152
0046718	4 G 1.5	10.9	101.1	186
0046719	5 G 1.5	11.8	122.7	222
0046720	7 G 1.5	12.8	158.7	281
0046721	12 G 1.5	16.9	245.2	431
0046723	18 G 1.5	19.6	346.1	600
0046724	25 G 1.5	23.9	495.7	833
0046728	3 G 2.5	11	115.5	197
0046729	4 G 2.5	11.9	146.7	244
0046730	5 G 2.5	12.9	177.9	291
0046734	3 G 4	12.3	165.9	261
0046735	4 G 4	13.4	211.5	325
0046736	5 G 4	14.9	257.2	389
0046740	4 G 6	17.2	302.8	482
0046741	5 G 6	18.7	367.6	580
0046742	4 G 10	22.8	508.4	802

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